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The design of the visualization system training complex based on the competence approach

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Abstract. A high level of readiness to perform labor functions in emergency situations is becoming more popular in the labor market. Digitalization of all spheres of activity causes the need for professional training to use instrumental and pedagogical means in the form of training complexes. There is a weak elaboration of conceptual approaches to the design of training complexes based on the laws of pedagogy and psychology. The purpose of the research is to develop a methodology for creating a system of visualization of training complexes that provides effective and efficient formation of the required competencies. Competence-based, synergetic, contextual and activity-based methodological approaches are used. The structure of professionally important competencies of employees of hazardous industries, which ensures their activity in a stable operating enterprise and in emergency situations, is substantiated; criteria for optimal design of the structure of the visualization system of the training complex are formulated; an algorithm is presented that allows to formalize the process of correlation between existing visualization tools and technologies and the tasks of the developed training complex. The formulated approaches to the creation of digital educational tools contribute to solving the scientific problem of providing conditions for improving the quality of training specialists to work in complex science-intensive industries.

Keywords: digital educational technologies, instrumental and pedagogical tools, activity pedagogy, professionally important competencies, quality of education.

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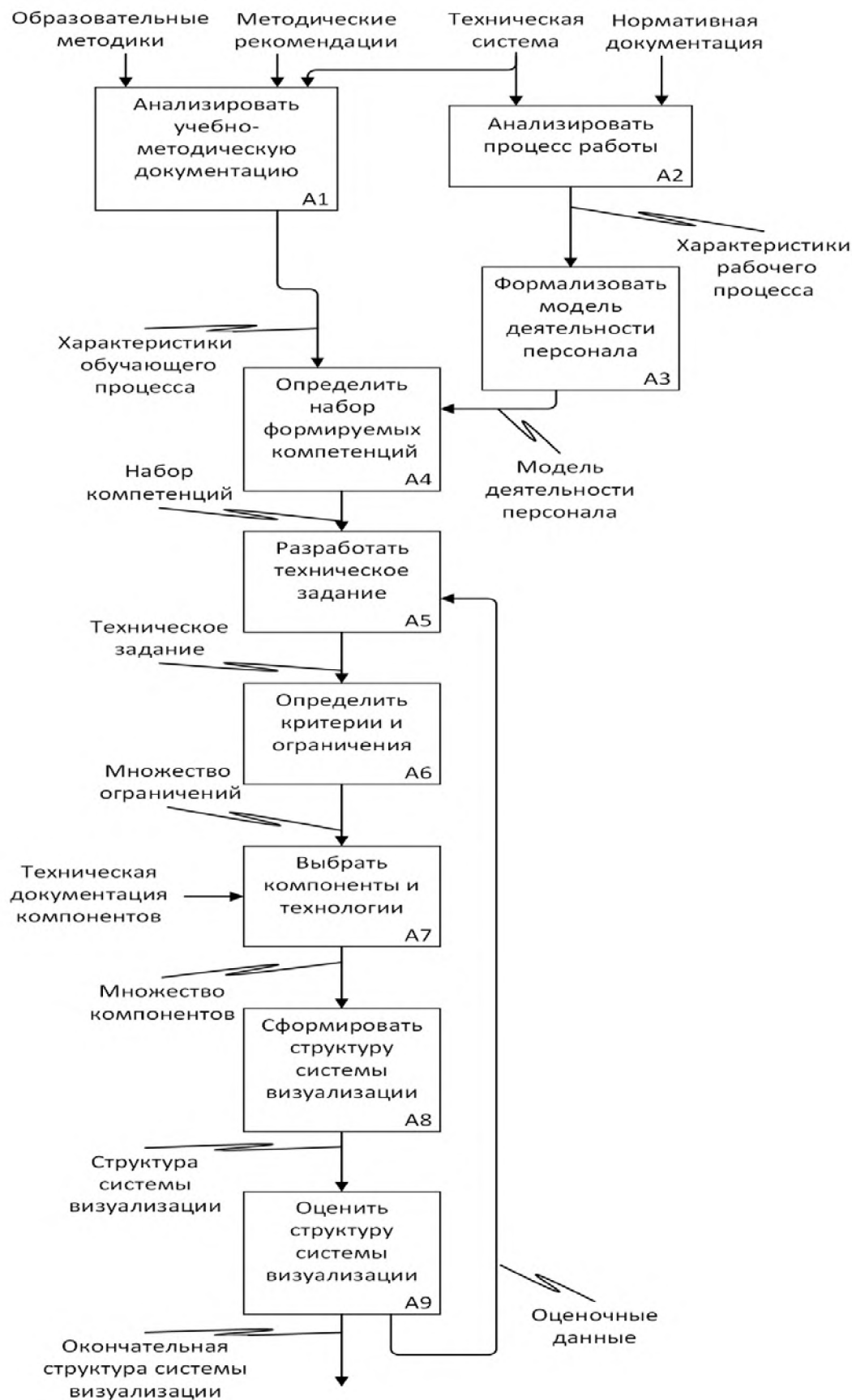
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384



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